In the Claims

- 1. A pre-formed insulation module for insulating a process component having opposed longitudinally extending contacting surfaces extending along a length thereof and terminal contacting surfaces at each end thereof comprising:
- (a) at least one first inner insulation layer being constituted of an insulation material having a capacity to withstand thermal shock under cryogenic conditions and having one surface proximate to a surface of a component to be insulated;
- (b) at least one second outer insulation layer disposed radially outwardly of said inner insulation layer;
 - (c) at least one water vapour barrier layer; and
- (d) a cladding layer distinct from said at least one water vapour barrier layer.
- 2. The module of claim 1 including connection means for connecting said module to an adjacent module for insulating said component.
- 4. The module of claim 3 wherein said circumferentially disposed connection means are formed in the terminal contacting surfaces and the longitudinally disposed connection means are formed in said longitudinally extending contacting surfaces.
- 16. The module of claim 1 wherein said inner insulation layer is formed from a first insulation material and said outer insulation layer is formed from a second insulation material said first insulation material having different thermal shock characteristics from those of said second insulation material.



24. The module of claim 2 wherein said inner insulation layer is formed from a first insulation material and said outer insulation layer is formed from a second insulation material said first insulation material having different thermal shock characteristics from those of said second insulation material.



- 25. The module of claim 3 wherein said inner insulation layer is formed from a first insulation material and said outer insulation layer is formed from a second insulation material said first insulation material having different thermal shock characteristics from those of said second insulation material.
- 26. The module of claim 4 wherein said inner insulation layer is formed from a first insulation material and said outer insulation layer is formed from a second insulation material said first insulation material having different thermal shock characteristics from those of said second insulation material.